

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L112	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4 or introduc\$4) near4 air) and (ignit\$4 and retard\$4) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 18:01
L111	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4 or introduc\$4) near4 air) and (ignit\$4 and retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 18:01
L108	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) near4 air) and (ignit\$4 and retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 18:01

## EAST Search History

L11 0	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) and air) and (ignit\$4 and retard\$4) and (temperature ) ).CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 18:00
L10 9	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) and air) and (ignit\$4 and retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 18:00
L10 7	2	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) near4 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:59

## EAST Search History

L10 6	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near4 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:59
L10 5	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near2 gas) and (engine) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near2 retard\$4) and (temperature near2 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:59
L10 4	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) and air) and (ignit\$4 and retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:59

## EAST Search History

L10 3	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) near4 air) and (ignit\$4 and retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:58
L10 2	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary or devic\$4) near4 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:58
L10 1	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near4 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near4 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:58

## EAST Search History

L10 0	0	(( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.)) and ((exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near2 retard\$4) and (temperature near2 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:58
L93	49	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near2 retard\$4) and (temperature near2 exhaust) and (torque)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:56
L99	22	( (exhaust near4 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near4 air) and (ignit\$4 near4 retard\$4) and (temperature ) ).CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:52
L98	13	( (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near2 retard\$4) and (temperature ) ).CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:52

## EAST Search History

L96	0	( (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near2 retard\$4) and (temperature near2 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:52
L97	1	( (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:51
L95	6	( (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) ).CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:51
L94	638	( (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) ). CLM.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:51

## EAST Search History

L92	49	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust) and (torque)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:51
L91	50	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4) and (temperature near4 exhaust)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:50
L88	106	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:50
L90	50	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4) and (temperature)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:49

## EAST Search History

L89	50	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4) and ((addition\$4 or second\$4 or supplemental\$4 or secondary ) near2 air) and (ignit\$4 near4 retard\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:48
L87	250	( LEWIS.in. or KERNS.in. or GERHART.in. or CUNNINGHAM.in.) and (exhaust near2 gas) and (engine) and ( cataly\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:47
L1	683	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:45
L86	23	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (lean or updat\$4) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33



## EAST Search History

L85	70	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near temperature)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L84	105	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L83	193	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L82	66	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (exhaust near (temperature)) and (close\$4 near2 loop)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L81	8	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L80	44	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L79	3	(60/289-293.ccls.) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L78	38	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near pressure)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L77	21	(exhaust near2 gas) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L76	70	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near temperature)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L75	170	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L74	213	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L73	683	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L72	40	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (adapt\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L71	32	(calculat\$4 or estimat\$4) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adaptive\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L70	23	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L69	51	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L68	24	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L67	3	"6715280".pn. or "6640539".pn. or "6666021".pn.	USPAT	OR	ON	2006/12/20 17:33
L66	6	"6715280".pn. or "6640539".pn. or "6666021".pn.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L65	60	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4 near2 control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L64	66	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (exhaust near (temperature)) and (close\$4 near2 loop)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L63	17	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near (temperature)) and (close\$4 near2 loop)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L62	8	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near (pressure)) and (close\$4 near2 loop)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L61	1	("5517848".pn.) and ( air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and ((intake or engine) near2 (air near2 flow))	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L60	1	("5517848".pn.) and ( air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (air near flow)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L59	38	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near pressure)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L58	38	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near (pressure))	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L57	19	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near (temperature and pressure))	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L56	12	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near (temperature and pressure)) and (exhaust near2 pressure)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L55	12	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near2 (temperature and pressure)) and (exhaust near2 pressure)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L54	70	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4 near temperature)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L53	193	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33



## EAST Search History

L52	23	(air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L51	23	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L50	23	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (start\$4) and (lean or updat\$4) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L49	23	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (lean or updat\$4) and (ambient\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L48	1	("5271223".pn.) and (calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (start\$4) and (lean or updat\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L47	1	("5271223".pn.) and (calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4) and (rich\$4 or enrich\$4) and (start\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L46	105	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L45	12	"5388401".URPN.	USPAT	OR	ON	2006/12/20 17:33
L44	11	"5271223".URPN.	USPAT	OR	ON	2006/12/20 17:33
L43	14	("3921396"   "3945204"   "3961477"   "4068472"   "4087964"   "4231220"   "4245471"   "4251990"   "4299089"   "4376569"   "4809501"   "4835964"   "5159810"   "5207057"). PN.	USPAT	OR	ON	2006/12/20 17:33
L42	4	"5735120".URPN.	USPAT	OR	ON	2006/12/20 17:33

## EAST Search History

L41	7	("5279116"   "5280707"   "5301501"   "5359853"   "5377484"   "5412941"   "5595061").PN.	USPAT	OR	ON	2006/12/20 17:33
L40	4	("5638801"   "5687699"   "5690086"   "5694910").PN.	USPAT	OR	ON	2006/12/20 17:33
L39	60	"5752492".URPN.	USPAT	OR	ON	2006/12/20 17:33
L38	4	("5638801"   "5687699"   "5690086"   "5694910").PN.	USPAT	OR	ON	2006/12/20 17:33
L37	26	"5357749".URPN.	USPAT	OR	ON	2006/12/20 17:33
L36	6	("3820327"   "3910042"   "4297328"   "4870938"   "4964271"   "5083427").PN.	USPAT	OR	ON	2006/12/20 17:33
L35	9	"5517848".URPN.	USPAT	OR	ON	2006/12/20 17:33
L34	7	("3947544"   "5097700"   "5214915"   "5219228"   "5303580"   "5388454"   "5408215").PN.	USPAT	OR	ON	2006/12/20 17:33
L33	11	"5519992".URPN.	USPAT	OR	ON	2006/12/20 17:33
L32	7	("3947544"   "3962867"   "3986352"   "4098078"   "5060474"   "5097700"   "5140810").PN.	USPAT	OR	ON	2006/12/20 17:33
L31	10	"5615552".URPN.	USPAT	OR	ON	2006/12/20 17:33
L30	6	("5140810"   "5333446"   "5381658"   "5388401"   "5400591"   "5519992").PN.	USPAT	OR	ON	2006/12/20 17:33

## EAST Search History

L29	27	((secondary or additio\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4) and (learn\$4 and update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L28	8	(air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4) and (60/289-293.ccls.) and (learn\$4 and update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L27	691	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4) (60/289-293. ccls.) and (learn\$4 and update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L26	10	(60/289-293.ccls.) and (learn\$4 and update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L25	9	(60/289-293.ccls.) and (secondary near2 air) and (learn\$4 and update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L24	3	(60/289-293.ccls.) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L23	4	(60/289-293.ccls.) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L22	16	((calculat\$4 or estimat\$4) near2 air) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L21	8	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L20	71	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L19	21	(exhaust near2 gas) and (secondary near2 air) and (learn\$4 near3 update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L18	8	(exhaust near2 gas) and (secondary near2 air) and (learn\$4 near2 paramet\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L17	160	(exhaust near2 gas) and (learn\$4 near2 paramet\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L16	57	(exhaust near2 gas) and (adaptive\$4 near2 learn\$4 near2 paramet\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L15	2	(exhaust near2 gas) and (secondary near2 air) and (adaptive\$4 near2 learn\$4 near2 paramet\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L14	21	(exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (updat\$4 near3 learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L13	37	(exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adaptive\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L12	32	(calculat\$4 or estimat\$4) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adaptive\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L11	7	(calculat\$4 or estimat\$4) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$6 near2 learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L10	52	(calculat\$4 or estimat\$4) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33



## EAST Search History

L9	44	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4 near control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L8	60	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4 near2 control\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L7	170	(calculat\$4 or estimat\$4) and (air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (adapt\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L6	23	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (learn\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33

## EAST Search History

L5	24	((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air) and (update\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L4	51	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (secondary near2 air)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L3	40	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and (cataly\$4) and (adapt\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33
L2	213	(60/272-324.ccls.) and ((calculat\$4 or estimat\$4) near2 air near2 amount) and (exhaust near2 gas) and (engine) and ( cataly\$4)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/12/20 17:33